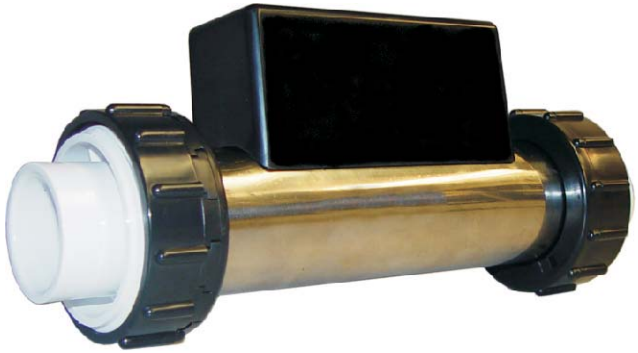
Field Installable InLine Heater



INSTALLATION INSTRUCTIONS

FIELD - INSTALLED APPLICATIONS ONLY

IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS

SEE THE BACK COVER OF THIS MANUAL FOR A LIST OF ELJER WHIRLPOOLS THAT WILL ACCEPT THIS HEATER.

Made Exclusively for Eljer's Premiere Series Whirlpool Models:

015-0015, 015-0105, 015-0109, 015-0065, 015-0025, 015-0035, 015-0045, 015-0075, 015-0074, 015-3705, 015-5405, 015-2505, 015-4805

A complete listing of compatible models is available at: www.eljer.com/heaterindex.htm

Rev. 10/07

IMPORTANT SAFETY INSTRUCTIONS
- DO NOT DISCARD -

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRICAL SHOCK OR INJURY TO PERSONS
READ AND FOLLOW ALL INSTRUCTIONS

You should have received safety instructions with your hydromassage bathtub system. Please read and follow them carefully. Those instructions should include the following warnings:

1. **WARNING - Risk of Electrical Shock -** Do not permit any electrical appliances (such as light, telephone, radio, or television) within five feet of the bathtub.

2. **DANGER -** To reduce the risk of injury, do not remove the suction cover from the bathtub.

3. To Reduce the Risk of Injury:

   A. The water in your bathtub should not exceed 104° Fahrenheit. Lower water temperatures are recommended for extended bathing (exceeding 10-15 minutes) and are definitely recommended for young children.

   B. Pregnant or possibly pregnant women should consult a physician before using the hydromassage bathtub. Water temperatures in excess of 100° Fahrenheit are not recommended.

   C. The use of alcohol, drugs or medication before or during the use of the hydromassage bathtub may lead to unconsciousness with the possibility of drowning. Consult your physician before using the bathtub if you are using medication.

   D. Persons suffering from obesity or with a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using the hydromassage bathtub.

4. **WARNING -** Risk of Child Drowning - To reduce the risk of accidental drowning, do not permit children to use the hydromassage bathtub unless closely supervised.

5. **WARNING - RISK OF ELECTRICAL SHOCK -** All electrical connections must be accomplished by a qualified electrician in accordance with Article 680 of the National Electric Code and any local codes. In addition, a GFCI MUST protect all branch circuits to the bathtub and every electrical component MUST be grounded.

TROUBLESHOOTING

THERE ARE NO SERVICEABLE PARTS INSIDE HEATER - DO NOT OPEN

NOTHING WORKS!

Main Breaker is OFF - Set to On
GFCI Tripped - Press Reset
Power Cord not plugged in - Plug in power cord

HEATER "ON" LIGHT DOES NOT TURN ON

Power cord not plugged in - Plug in power cord
GFCI Tripped - Press Reset
No Power to Heater - Reset breaker at service panel
Improper Water Flow - Assure proper pump operation
Pump Is Not Running - Activate hydromassage pump
Water Temperature Too High

HEATER "ON" LIGHT WILL NOT TURN OFF

Water Level Too Deep for Pressure Switch Setting - Lower Water Level
Pressure Switch Defective - Replace Heater
Heater Wiring Error - Replace Heater

HIGH-LIMIT TRIPS

Water Blockage - Correct/Remove Blockage
Low Water Flow - Correct Problem
High-Limit Will Not Reset - Replace Heater

WATER LEAKS FROM CONTROL BOX

Defective Component - Replace Heater

GFCI TRIPS OCCASIONALLY

Lightning or Electrical Storm, Power Surge, Extremely Humid Conditions or Radio Frequency Interference - Reset GFCI. Note: Assure Heater is Properly Grounded and Bonded
Inspect Heater for Leaks or Moisture - Correct or Replace as Required

GFCI TRIPS REPEATEDLY

Defective Component - Replace Heater

CIRCUIT BREAKER TRIPS

Breaker Size Improper - Contact a qualified service technician.
Heater Requires a DEDICATED Circuit - Assure No Other Appliances are on this Circuit

4. Now that the heater installation is complete, fill the bathtub with water (preferably cold so the heater can be properly tested below 100°F).

5. Inspect all plumbing connection for leaks.

6. Activate the hydromassage pump to circulate water throughout the systems plumbing and check again for leaks at all plumbing connection.

7. Turn off the pump and plug the heaters power cord into the 20 Amp GFCI protected outlet.

8. Activate the pump and verify that the “Heater ON” indicator light is illuminated on the heater. When illuminated, the heater is operating properly and will continue to do so as long as there is water flowing through the plumbing to maintain and prolong your bathing enjoyment.

OPERATION

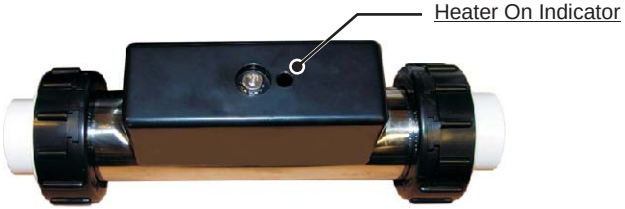
Once the Whirlpool Bath Heater has been installed, operation is totally automatic. The Heater will help maintain the temperature of the water in the bathtub, or increase the temperature of the water in the bathtub at about two to four degrees Fahrenheit per hour. The heater includes the following components:

THERMOSTAT: The “Smart Thermostat” requires no adjustment and will automatically maintain the water temperature at 102°F-104°F. If the bathtub water is too warm, simply adjust by adding cold water. See “Important Safety Instructions”.

HIGH-LIMIT: The heater includes an exclusive “Intelligent High-Limit” circuit that constantly monitors the water temperature and assures that any overheat condition turns off the heater until the condition has been corrected. This safety circuit will not “false trip” from hot tap water. It will only turn off if the thermostat fails. To manually reset the circuit in the event that the “High-Limit” switch has been activated, simply (1) Turn off whirlpool Pump (2) Drain water from the tub (3) Remove power from heater by unplugging at receptacle or turning off circuit breaker (4) The heater circuit will automatically reset in less than 15 minutes (5) Restore power to heater (6) Whirlpool Bath is now ready for use. If the high-limit trips frequently, contact your local dealer or service company.

INDICATOR LIGHT: The light turns on when the heater is operating.

PRESSURE/VACUUM SWITCH: The heater is equipped with a preset pressure or vacuum switch. The pump must be running with water flowing in the whirlpool to allow the heater to turn on. Note: Smaller fractional horsepower pumps may not activate the heater. Contact your dealer for troubleshooting procedure.



6. The heater must be connected only to a supply circuit that is protected by a ground fault circuit interrupter (GFCI). The GFCI should be tested on a routine basis. To test the GFCI, push the test button. Power to the bathtub should be turned off. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the bathtub without the test button being pushed, a ground current is flowing, indicating the possibility of an electrical shock. Do not use the bathtub. Disconnect the hydromassage bathtub and have the problem corrected by a qualified service technician before using.

7. **WARNING -** Prolonged immersion in hotter water may induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above the normal body temperature of 98.6?F. The symptoms of hyperthermia include an increase in the internal temperature of the body, dizziness, lethargy, drowsiness and fainting. The effects of hyperthermia include:

   A. Failure to perceive heat

   B. Failure to recognize the need to exit the bathtub

   C. Unawareness of impending hazard

   D. Fetal damage in pregnant women

   E. Physical inability to exit the bathtub

INSTALLATION INSTRUCTIONS

⚠ WARNING

When using electrical products, basic precautions should always be followed, including the following:

1. **DANGER - RISK OF ELECTRICAL SHOCK -** Connect only to a circuit protected by a Ground Fault Circuit Interrupter.

2. Grounding is required. The heater should be installed by a qualified technician and should be grounded.

3. Install to permit access for servicing.

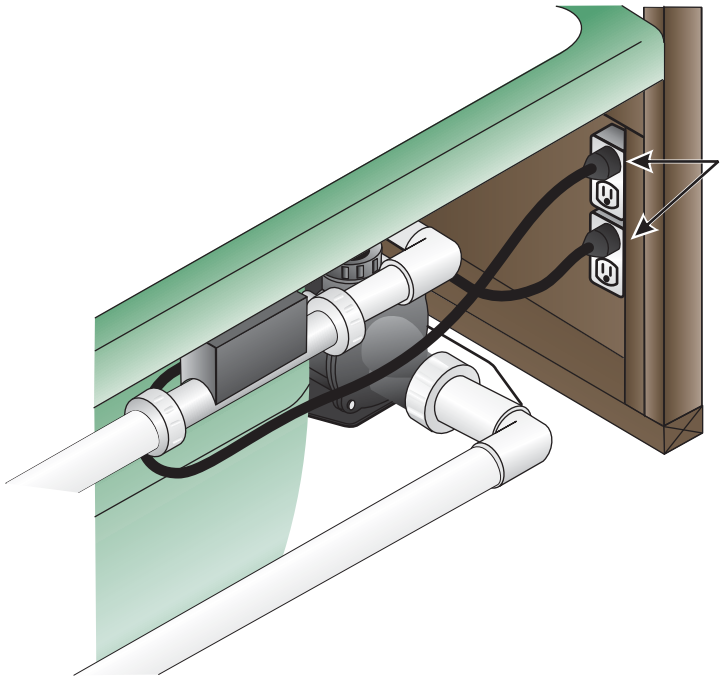
ELECTRICAL CONNECTION

Install a separate 120 Volt,15/20 Amp dedicated circuit with GFCI (Ground-Fault Circuit Interrupter) protection. With a No. 8 solid copper wire, bond the heater and hydromassage bathtub pump to the homes electrical panel or approved local bonding point. A bonding lug has been provided on the heater.

1. Route two separate branch circuits (see illustration below) to the junction box near the bathtub. *Each branch circuit MUST BE GFCI PROTECTED.

2. Use solid copper conductors only.

3. Insure the heater and pump are properly GROUNDED and BONDED as required. A bonding lug suitable for No.8 AWG wire has been provided on the heater (most pumps provided with the hydromassage bathtub will also include a bonding lug).



INSTALLATION INSTRUCTIONS

First you must locate the pump and Heater Blank fitting supplied with your hydromassage bathtub.

Note: Photos are for illustration purposes only. The Heater Blank fitting in your particular application may be located anywhere in the plumbing mentioned.

A Heater Blank fitting has been supplied by the bathtub manufacturer to allow for ease of heater installation. (Photo #1)

Photo #1

1. Carefully loosen Heater Blank fittng nuts and remove the Heater Blank fitting ensuring that ridged gaskets stay in place as shown in Photo #2.

Photo #2

2. Making sure that gaskets remain installed on the existing threaded tailpiece fittings, insert the heater into place as shown in Photo #3. (Heater may be positioned in any direction, i.e. up/down)

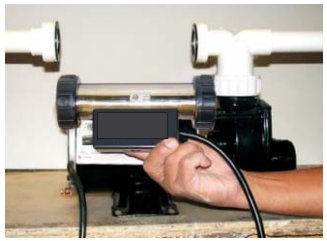


Photo #3

3. Once the heater is in place, inspect heater and gaskets for proper alignment. Tighten heater union nuts to ensure a proper seal. Photo #4 shows a typical completed heater installation.

Photo #4